

BRODSKIY, K. A. and BASKAKOV, G. A.

"Accelerated Calculation Method for Computing Zooplankton," Trudy
Gidrobiol. obshch., No.3, 1951

BRODSKIY, K.A.

Deep-water copepod crayfish (Calanoida) of the northwestern part of the
Pacific Ocean. Issl.dal'nevost.mor.SSSR 3:37-87 '52. (MLRA 6:7)
(Pacific Ocean--Copepoda) (Copepoda--Pacific Ocean)

BRODSKIY, K.A.

Vertical distribution of copepod crayfish in the northwestern part of the
Pacific Ocean. Issl.dal'nevost.mor.SSSR 3:88-94 '52. (MLRA 6:7)
(Pacific Ocean--Copepoda) (Copepoda--Pacific Ocean)

BRODSKIY, K. A.

"Copepod Fauna ("Kalanidae") and Their Zoogeographic Distribution in the Northern Part of the Pacific Ocean." Dr Biol Sci, Inst of Oceanology, Acad Sci USSR, Moscow, 1954. (RZhBiol, No 6, Mar 55)

So: Sum. No 670, 29 Sept 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

BONDARTSEV, A.S.; SAVICH, V.P., professor, doktor biologicheskikh nauk, zasluzhennyy deyatel' nauki RSFSR; BRODSKIY, K.A., redaktor; ARONS, R.A., tekhnicheskyy redaktor

[Color chart; manual for biologists engaged in pure and applied scientific research] Shkala tsvetov; posobie dlia biologov pri nauchnykh i nauchno-prikladnykh issledovaniyakh. Moskva, Izd-vo Akademii nauk SSSR, 1954. 27 p. (MLRA 8:4)
(Colors—Terminology)

BRODSKIY, K.A.

Blepharoceridae (Diptera) of the Altai and the southern
Maritime Territory. Trudy Zool. inst. 15:229-257 '54. (MLBA 7:7)
(Altai Territory--Diptera) (Diptera--Altai Territory)
(Maritime Territory--Diptera) (Diptera--Maritime Territory)

AKUMUSHKIN, I.I.; BARANOVA, Z.I.; BRODSKIY, K.A.; VIRKETIS, M.A.;
 VOLODCHENKO, N.I.; GALKIN, Yu.I.; GUR'YANOVA, Ye.F.; DOGEL'
 V.A.; D'YAKONOV, A.M.; ZEVINA, G.B.; IVANOV, A.V.; KIR'YANOVA,
 Ye.S.; KOBYAKOVA, Z.I.; KOLTUN, V.M.; KONZHUKOVA, Ye.D.;
 KOROTKEVICH, V.S.; KLYUGE, G.A.; LOZINA-LOZINSKIY, L.K.;
 LOMAKINA, N.B.; NAUMOV, D.V.; PERGAMENT, T.S.; RUSHEFTHYAK,
 V.V.; SAVEL'YEVA, T.S.; SKARLATO, O.A.; SOKOLOV, I.I.;
 STRELKOV, A.A.; TARASOV, N.I.; USHAKOV, P.V.; SHCHEDRINA, Z.G.
 YAKOVLEVA, A.M.; USHAKOV, P.V., obshchiy rukovoditel';
 PAVLOVSKIY, Ye.N., akademik, redaktor; STRELKOV, A.A. redaktor;
 BRODSKIY, K.A., redaktor; ARONS, R.A., tekhnicheskii redaktor.

[Atlas of invertebrates of the Far East seas of the U.S.S.R.]
 Atlas bespozvonochnykh dal'nevostochnykh morei SSSR. Moskva,
 Izd-vo Akad.nauk SSSR, 1955. 240 p., 66 plates. (MLRA 8:10)

1. Akademiya nauk SSSR. Zoologicheskii institut,
 (Soviet Far East--Invertebrates)

LINDBERG, G.U.; PAVLOVSKIY, Ye.N., akademik, redaktor; BRODSKIY, K.A., redaktor; LICHKOV, B.L., redaktor; ZEMEL', R.Ye., Tekhnicheskiy redaktor.

[Quaternary period in the light of biogeographical data] Chetvertichnyi period v svete biogeograficheskikh dannyykh. Moskva, Izd-vo Akademii nauk SSSR, 1955. 334 p. (MLRA 8:12)

1. Direktor zoologicheskogo instituta AN SSSR (for Pavlovskiy)
(Paleobotany--Quaternary)

BRODSKIY, K.A.

Copepoda (Calanoida) of the Kurile-Kamchatka Trench. Trudy
Inst.ocean. no.12:184-209 '55. (MIRA 8:9)

1. Zoologicheskii institut Akademii nauk SSSR
(Kurile Trench--Copepoda)

BRODSKIY, K.A.

Plankton of the northwestern Japan Current and the Kurile Islands
region. Trudy Inst.ocean. no.18:124-133 '55. (MLRA 8:12)
(Pacific Ocean--Plankton)

BRODSKIY, K.A.

New deep-sea species of *Pareuchaeta pavlovskii* (Calanoida) in the
Northern Pacific Ocean. Trudy Zool.inst. 21:186-189 '55.

(MLRA 9:5)

(Pacific Ocean--Copepoda)

USSR/Biology - Zoology

Card 1/1 Pub. 22 - 48/51

Authors : Brodskiy, K. A.

Title : ~~Brodskiy, K. A.~~
The distribution of the plankton in the north-western Pacific

Periodical : Dok. AN SSSR 101/5, 961-964, Apr 11, 1955

Abstract : Expeditionary-scientific data are presented on the distribution of the plankton in the north-western sections of the Pacific Ocean. Two USA references (1942 and 1950). Graphs.

Institution : Acad. of Sc., USSR, Zoological Institute

Presented by : Academician Ye. N. Pavlovskiy, January 12, 1955

USSR/ Biology - Zoology

Card 1/1 Pub. 22 - 61/62

Authors : Brodskiy, K. A.

Title : Zoogeographic regionalization of pelagic organisms of Far-Eastern seas and the northern part of the Pacific Ocean.

Periodical : Dok. AN SSSR 102/3, 649 - 652, May 21, 1955

Abstract : Data are presented pertaining to the zoogeographical regionalization of pelagic organisms (feed for industrial fisheries) in Far-Eastern seas and northern parts of the Pacific Ocean. Five USSR references (1941-1952). Tables; diagrams.

Institution : Acad. of Sc., USSR, Zoolog. Inst.

Presented by: Academician Ye. N. Pavlovskiy, January 27, 1955

BRODSKIY, K.A.

Vertical distribution of plankton in oceans and the classification
of marine basins. Dokl.AN SSSR 103 no.5:917-920 Ag '55. (MLRA 9:1)

1.Zoologicheskii institut Akademii nauk. Predstavleno akademikom
Ye.N.Pavlovskim.
(Plankton) (Marine biology)

BRODSKIY, K.A.

Dividing into regions the pelagic zones of Far Eastern seas and the contiguous waters of the Pacific on the basis of a study of copepods (Calanoida). Trudy probl.i tem.sov. no.6:22-35 '56. (MLBA 9:11)

1. Zoologicheskii institut AN SSSR.
(Soviet Far East--Copepoda)

BRODSKIY, K.A., doktor biologicheskikh nauk.

Life in waters of the polar basin. Priroda 45 no.5:41-48 My '56.
(MLBA 9:8)

(Arctic regions--Marine biology)

BRODSKIY, K.A.

Zonal distribution (according to latitude) of Calanoida in the northern regions of the Pacific and in neighboring waters. Dokl. AN SSSR 106 no.6:1103-1106 P '56. (MIRA 9:7)

1. Zoologicheskiy institut Akademii nauk SSSR. Predstavleno akademikom Ye.N. Pavlovskim.
(Pacific Ocean)

BRODSKIY, K.A.; PAVLOVSKIY, Ye.N., akademik; KISELEV, I.A., prof.,
red.izdaniya; KOZLOVA, G.I., red.izdatel'stva; TVERITINOVA, K.S.,
tekhn.red.

[Copepoda (Calanoida) and zoogeographical regions of the
northern part of the Pacific Ocean and contiguous waters]
Fauna veslonogikh rachkov (Calanoida) i zoogeograficheskoe
raionirovanie severnoi chasti Tikhogo okeana i sopredel'nykh
vod. Moskva, Izd-vo Akad.nauk SSSR, 1957. 222 p. (MIRA 11:1)

1. Direktor Zoologicheskogo instituta AN SSSR (for Pavlovskiy).
(Pacific Ocean--Copepoda)

USSR/General Biology - General Hydrobiology.

B-6

Abs Jour : Ref Zhur - Biol., No 4, 1958, 14455

Author : Brodskiy, K.A., Vinogradov, M.E.

Inst :

Title : Plankton Distribution in the Indian (?) Sector of Antarctica (from Data of the 1st Voyage of the Combined Antarctic Expedition of the Academy of Sciences, USSR).

Orig Pub : Dokl. AN SSSR, 1957, 112, No 5, 957-960

Abstract : Based on plankton collections conducted on the first voyage of the "Ob" from February 29 to June 3, 1956, it was established that for this period the zone richest in phytoplankton (2.6 g/m^3) lies directly near the shores of Antarctica; zooplankton develops most abundantly in the zone between the northern border of the floating ice belt and $63-64^\circ$ south. lat. The average plankton biomass in this zone of the Antarctic in the period of biological summer (0.317 g/m^3) is close to (a little lower) the plankton

Card 1/2

Zoologicheskii institut, Institut okeanologii Akademii nauk SSSR. Predstavleno Akademikom Ye. N. Pavlovskim. (Antarctic regions-Plankton

USSR/General Biology - General Hydrobiology.

B-6

Abs Jour : Ref Zhur - Biol., No 4, 1958, 14455

biomass of some seas of the Northern Hemisphere (Barents, Bering, Okhotsk Seas and the waters of Kurilo-Kamchatka inlets).

Bredskiy, K. A.

3(5,7)

PHASE I BOOK EXPLOITATION

SOV/2193

Sovetskaya antarkticheskaya ekspeditsiya, 1955-1958

Informatsionnyy byulleten', Vyp. 3 (Information Bulletin of the Soviet Antarctic Expedition, Nr 3) Leningrad, Izd-vo "Morskoy transport," 1958. 102 p.
1,500 copies printed.

Sponsoring Agencies: USSR. Ministerstvo morskoy flot. Glavnoye upravleniye Severnogo morskogo puti. Arkticheskiy i Antarkticheskiy nauchno-issledovatel'skiy institut.

Ed. of this Vol.: P. V. Ushakov; Resp. Ed.: M. M. Somov; Editorial Board:
A. P. Andriyashev, V. Kh. Buynitskiy, I. M. Dolgin, S. V. Kalesnik, Ye. S. Korotkevich, I. V. Maksimov (Deputy Resp. Ed.), A. P. Nikol'skiy, M. G. Ravich, G. M. Tauber, A. F. Treshnikov (Deputy Resp. Ed.), S. B. Slevich (Resp. Secretary); Ed.: L. G. Kaplinskaya; Tech. Ed.: L. P. Drozhzhina.

PURPOSE: This book is intended for natural and earth scientists interested in the research activities of the diesel-electric ship "Ob" in the Antarctic. It

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Information Bulletin of the Soviet (Cont.)

SOV/2193

is of particular interest to marine biologists, meteorologists, and geophysicists.

COVERAGE: This issue of the Information Bulletin on the Soviet Antarctic Expedition reports on the fauna found in various regions of the Southern Hemisphere, the hydrology and hydrochemistry of Antarctic and Subarctic waters, and the geomorphology of the Antarctic shelf. The reports were read at the First Conference on the Study of Antarctica's Marine Fauna in December 1958. No references are given.

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11

The following research workers, associated with the Zoological Institute, Academy of Sciences of the USSR, the Institute for Oceanology, Academy of Sciences of the USSR, the All-Union Scientific Research Institute for Fishing and Oceanography, and the Paleontological

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Information Bulletin of the Soviet (Cont.)

SOV/2193

Institute of the Academy of Sciences of the USSR, took part in the expedition: in the first voyage - A. P. Andriyashev, V. A. Arsen'yev, G. M. Belyayev, K. A. Brodskiy, M. Ye. Vinogradov, A. K. Tokarev, and P. V. Ushakov; in the second voyage - V. A. Arsen'yev, V. V. Barsukov, K. V. Beklemishev, A. V. Gusev, V. S. Korotkevich, F. A. Pasternak, and Yu. Ye. Permitin; in the third voyage - A. P. Andriyashev, K. A. Brodskiy, B. A. Zenkovich, A. A. Kirpichnikov, V. M. Koltun, A. G. Naumov, F. A. Pasternak, and Yu. Ye. Permitin.

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AVAILABLE: Library of Congress

Card 8/8

MM/fal
8-21-59

BRODSKIY, K. A.

Plankton in the Northwestern Part of the Kuroshio Current and in the Waters of the Kurile Archipelago of the Pacific Ocean.

The article discusses types and location of plankton occurring in the zone of confluence of warm and cold waters, and defines the impact of the warm Kuroshio Current on the quantitative and species distribution of the main types of plankton.

Oceanographic Research of the Northwestern Part of the Pacific Ocean. Moscow, Izd.-vo AN SSSR, 1958, 148 p. Its: Trudy, t.2.

This collection of articles reports the results of observations made in the Pacific by the Institute of Oceanology of the Academy of Sciences, USSR. In 1949, the Institute launched a systematic five-year program of scientific exploration of certain hydrographic peculiarities of the Soviet Pacific Area. The operations were carried out as a "Complex Oceanographic Expedition," using the Motorboat Vityaz' as its base. The Expedition worked in collaboration with the hydrographic Institute of the Soviet Navy (VMS), the Pacific Institute of Piscatology and Oceanography, and some 40 other institutes of the Academy of Sciences. Between 1949 and 1954, 18 trips were made, covering about 130,000 miles. Among the subjects of direct concern were: Meteorology, hydrology, oceanography, hydrochemistry, sedimentation, geography of the littoral, geology and contours of the sea bottom, fauna, plankton, microbiology, and gravimetry. Twenty-eight authors contributed to the collection which consists of 27 articles. There are: 6 gables, 23 diagrams, 3 illustrations (photographs of the littoral), 4 maps. There are no references.

Research of the Northwestern Part of the Pacific Ocean, Moscow, Izd.-vo AN USSR, 1958

3(5) FRAME 1 BOOK EXPLOITATION SOV/1637
 Akademiya nauk SSSR. Kompleksnaya antarkticheskiye ekspeditsiya.
 Opisechnye ekspeditsii na dizeľno-elektrodrive "Obi". 1955-1956 gg.
 (Description of the Expedition aboard the Diesel-Electric Ship "Obi"
 1955-1956) Moscow, Izd-vo AN SSSR, 1958. 237 p. 2,000 copies
 printed.

Sponsoring Agency: Akademiya nauk SSSR. Soviet po antarkticheskim
 issledovaniyam. Chief Ed.: Y. P. Bardin, Akademitsian resp. Ed.
 for this vol.: V. M. Kozlov. Professor, Chief, 1st trip of the
 Marine Antarctic Expedition USSR Academy of Sciences; Editorial
 Board: A. A. Arsen'yev (Chief, Main Administration of the Northern
 Sea Route), V. G. Babayev (Minister of Sea Transport),
 V. P. Burdakov (Deputy Chief, Main Administration of the Northern
 Sea Route), A. A. Zolotarev (Chief, Main Administration of the
 Sea Route).

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acoustic-meteorological service), V. G. Kozlov (Professor, Chief,
 1st trip of the Marine Antarctic Expedition, USSR Academy of
 Sciences), M. M. Smolov (Chief, Combined Antarctic Expedition,
 USSR Academy of Sciences), V. V. Prolov (Director, Arctic
 Scientific Research Institute, Main Administration of the
 Northern Sea Route), D. I. Shcherbakov (Chairman, Council for
 Antarctic Research, USSR Academy of Sciences; Eds. of Publishing
 House: L. I. Sprygina, and B. S. Sholbat; Tech. Ed.: F. S. Kashina.

REMARKS: This volume is intended for the general reader.

CONTENTS: The Report of the Combined Antarctic Expedition of the
 AN SSSR, headed by M. M. Smolov, contains a report of the work on
 the first trip of the Diesel-electric ship "Obi" to the Antarctic
 and the aims and problems involved, including the establishment of
 an observatory at Mirny. A major part of the book is devoted to
 scientific research in aerology, meteorology and oceanography.

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connected in cooperation with the "Obi" program. A large part of
 the observations and preliminary findings cited are in the field
 of hydrology and hydrochemistry, marine geology, geophysics,
 hydrography, and hydrobiology. A roster of the members of the
 expedition together with their specialties is included. There
 are 72 figures, including maps. Bibliographic references
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Card 7/3

ANDRIYASHEV, A.P., doktor biol.nauk; BRODSKIY, K.A., doktor biol.nauk;
USHAKOV, P.V., doktor biol.nauk

Biological studies undertaken by the Soviet Antarctic Expedition
on diesel-electric ship "Ob'" in 1955-1958. Infrom.biul.Sov.antark.
eskp. no.3:11-16 '58. (MIRA 12:4)

1. Zoologicheskii institut AN SSSR.
(Antarctic regions--Hydrobiological research)

BRODSKIY, K.A., doktor biol.nauk

Plankton studies undertaken by the Soviet Antarctic Expedition in
1955-1958. Inform.biul.Sov.antark.eksp. no.3:25-30 '58.
(MIRA 12:4)

1. Zoologicheskii institut AN SSSR.
(Plankton)

BRODSKIY, K.A.

Plankton in the northwestern part of the Japan Current and in the Kurile Island region of the Pacific Ocean. Trudy Okean. kom. 3:96-99 '58.

(MIRA 11:8)

(Pacific Ocean--Plankton)

PROBENII, R. A.

"Zoogeographical Zones of the South Pacific and Biopolar Distribution of Some Calanoids".
report to be submitted for the Intl. Oceanographic Cong. New York City,
31 Aug - 11 Sep 1959.

(Zoological Inst., Academy of Sciences)

BRODSKIY, K.A.

Zooplankton in the marine waters of southern Sakhalin and the southern Kuriles. Issl.dal'nevost.mor.SSSR no.6:5-46 '59.
(MIRA 13:3)

1. Zoologicheskii institut AN SSSR.
(Sakhalin--Zooplankton)
(Kurile Islands--Zooplankton)

Plankton distribution bio. part

Bipolar distribution of some plankton organisms. Internat. Rev.
Hydrobiol. no. 6:34-39 '61. (MIRA 12:11)

I. G. Gerasimov Institute of USSR.
(Copepoda) (Zooecography)

3(5)

SOV/26-59-7-3/55

AUTHORS: Brodskiy, K.A., Markov, K.K., and Shil'nikov, V.I.

TITLE: The Zonality of Moderate and High Latitudes of the Southern Hemisphere

PERIODICAL: Priroda, 1959, Nr 7, pp 19-26 (USSR)

ABSTRACT: The article deals with the establishment of zones of moderate and high latitudes of the Southern Hemisphere based on the findings of the Antarctic expeditions of the AS USSR during 1955-56, 1956-57, and 1957-58, as well as those of Western scientists. It also discusses hydrological and biological aspects of that region. The chart enclosed between pp 24 and 25 shows the boundaries of the antarctic, subantarctic, and moderate zones, as well as other geographical data compiled by the expeditionary ship "Lena", the diesel-electric ship "Ob'", and the diesel ship "Koooperatsiya". The article mentions the names of the following Soviet scientists: B.P. Alisov, G.M. Tauber, V.I. Shil'nikov, K.A. Brodskiy, K.K. Markov, Tolstikov, Golyshev, and

Card 1/2

SOV/26-59-7-3/55

The Zonality of Moderate and High Latitudes of the Southern Hemisphere

Kolp. There are 2 photos, 1 diagram, 1 chart, 4 graphs and 8 references, 3 of which are Soviet, 3 English, 1 Argentinian, and 1 Australian.

ASSOCIATION: Kompleksnaya Antarkticheskaya ekspeditsiya Akademii nauk SSSR (Joint Antarctic Expedition of the AS USSR)

Card 2/2

✓

BRODSKIY, K.A.

Phylogenetic relations of some Calanus (Copepoda) species
of the Northern and Southern Hemispheres. Zool.zhur. 38
no.10:1537-1553 0 '59. (MIRA 13:2)

1. Zoological Institute of the Academy of Sciences of the
U.S.S.R., Leningrad.
(Copepoda)

LINDBERG, G.U.; SHCHEDRINA, Z.G.; DOGEL', V.A.; RESHETNYAK, V.V.; STRELKOV, A.A.; KOLTUN, V.M.; NAUMOV, D.V.; IVANOV, A.V.; BYKHOVSKIY, B.Ye. ZHUKOV, Ye.V.; PIERGAMENT, T.S.; KOROTKEVICH, V.S.; USHAKOV, P.V.; KLYUGE, G.A.; ANDROSOVA, Ye.I.; GOSTILOVSKAYA, M.G.; BRODSKIY, K.A.; GUSEV, A.V.; TARASOV, N.I.; GUR'YANOVA, Ye.F.; VAGIN, V.L.; LOMAKINA, N.B.; BULYCHEVA, A.I.; KOPYAKOVA, Z.I.; LOZINO-LOZINSKIY, L.K.; YAKOVLEVA, A.M.; GALKIN, Yu.I.; SKARIATO, O.A.; AKIMUSHKIN, I.I.; D'YAKONOV, A.M.; BARANOVA, Z.I.; SAVEL'YEVA, T.S.; SKALKIN, V.A.

List of the fauna of marine waters of southern Sakhalin and southern Kuriles. Issl.dal'nevost.mor.SSSR no.6:173-256 '59.
(MIRA 13:3)

1. Zoologicheskii institut AN SSSR.
(Sakhalin--Marine fauna)
(Kurile Islands--Marine fauna)

SOV/26-60-1-13/45

3(5,9)

AUTHOR: Brodskiy, K.A., Doctor of Biological Science

TITLE: Around the World Aboard the "Ob'" ✓

PERIODICAL: Priroda, 1960, Nr 1, pp 75-82 (USSR)

ABSTRACT: This is a description of the ten-and-a-half month trip made between 1957 and 1958 by the Antarctic expedition diesel-electric vessel "Ob'". Captained by I.A. Man, she sailed from Kaliningrad on 27 September 1957 with a cargo of supplies essential to the expedition. Her deck-cargo included aircraft and snow-tractors. On her southbound course the "Ob'" negotiated the Kiel Canal and sailed through the Baltic, the North Sea, the Mediterranean (putting in at Genoa) and along the Atlantic coast of Africa where she met the trawler "Kazan'" on 20 October. She reached 60° south on 16 November, whereafter her progress was impeded by heavy ice. It took 2 more days to

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Around the World Aboard the "Ob'"

reach the Antarctic land-floe at a point 30 km from the Sovetskaya observatoriya Mirnyy (Soviet Observatory "Mirnyy") and 3 to drive a path 2-2.5 km inland. Supplies were unloaded and delivered to the observatory by tractor. The "Ob'" sailed again on 10 January 1958 after a rendezvous with the motor vessel "Koooperatsiya" which arrived to relieve those who had wintered at Mirnyy. Course was set for New Zealand and, while the ship coasted the Antarctic shore, work on cartography, geology and marine biology was carried out, frequently in bad weather. The aircraft were used extensively. Specimens of plankton, benthos and fish were collected at every available opportunity during the 24-hour watch. In order to depict the conditions encountered and the work performed, the author gives a brief journal extract. The "Ob'" reached Wellington, New Zealand, on 18 February and, after a short stay, set sail for Australia. She

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Around the World Aboard the "Ob'"

arrived at Adelaide on 4 March for a second rendezvous with the "Kooperatsiya". The next port of call was Easter Island, which the "Ob'" reached on 7 May. After a one day stay she set course for South America where she visited Valparaiso and Buenos Aires. Circumnavigation of the earth was achieved by passing Cape Finisterre on 26 July and the "Ob'" ended her voyage in the port of Leningrad on 2 August. Soon after, a conference on the marine fauna of the Antarctic was held at the Leningrad Zoological Institute of the AS USSR to discuss the preliminary results of the Sovetskaya Antarkticheskaya ekspeditsiya (Soviet Antarctic Expedition). Work performed by the "Ob'" yielded data on the quantitative distribution of fauna at different latitudes. At water temperatures of 25-28° plankton was found to be extremely abundant in pteropod molluscs and siphonophores in-

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Around the World Aboard the "Ob'"

cluding the genus Physalia and Pyrosoma. The number of different types of plankton decreases progressively in the more southerly latitudes. The results of the Antarctic expedition are to furnish material for monographs on the types of fauna encountered and will enable marine zoologists to extend their studies. The author concludes by stressing the necessity of analyzing on a comparative basis. There are 5 photographs and 6 references, of which 1 is Maori, 1 Scandinavian and 4 Soviet.

ASSOCIATION: Zoologicheskii institut Akademii nauk SSSR (Zoological Institute of the AS USSR), Leningrad.

Card 4/4

BRODSKIY, K.A.

Zoogeographical zones in the southern part of the Pacific Ocean
and bipolar distribution of some Calanoida species. Trudy Okean.
kom. 10 no.4:8-13 '60. (MIRA 14:3)

1. Zoologicheskii institut AN SSSR.
(Pacific Ocean--Copepoda)

KLEPIKOV, V.V., kand. geogr. nauk; MOROSHKIN, K.V.; BOGOYAVLENSKIY, A.N.;
NAZAROV, V.S.; MAKSIMOV, B.A.; ZHIVAGO, A.V.; BRODSKIY, K.A.;
KOLTUN, V.M.; ANDRIYASHEV, A.P.; PAKHAREVA, M.M., red.; KOTLYAKOVA,
O.I., tekhn. red.

[Transactions of the Soviet Antarctic Expedition] Trudy Sovetskoi
antarkticheskoi ekspeditsii, 1955. Leningrad, Izd-vo "Morskoi
transport." Vol.22. [Third Sea Expedition of the diesel-electric ship
Ob', 1957-1958; observational data] Tret'ia morskaya ekspeditsiya na
d/e "Ob'" 1957-1958 gg.; materialy nabludeni. Pod red. V.V.Klepiko-
va. 1961. 233 p. (MIRA 14:11)

1. Sovetskaya antarkticheskaya ekspeditsiya, 1955.
(Antarctic regions—Oceanographic research)

BRODSKIY, Konstantin A., Dr.

"On biogeographical division of pelagial of the southern hemisphere
according to the distribution of Calanus species"
Session 4b

report to be submitted for
International Council of Scientific Unions (ICSU) - Symposium on Antarctic
Biology, Paris, France, 2-8 Sep 62

Institute of Zoology, Academy of Sciences USSR, Leningrad

BRODSKIY, K.A.

Biometric analysis of the morphological variability of *Calanus pacificus* Brodsky (Copepoda). Dokl. AN SSSR 142 no.6:1416-1419 F '62. (MIRA 15:2)

1. Zoologicheskii institut AN SSSR. Predstavleno akademikom Ye.N.Pavlovskim.
(Pacific Ocean—Copepoda)

BRODSKIY, K.A.

Ranges of species of the genus Calanus occurring in large masses
in the Southern Hemisphere. Dokl. AN SSSR 143 no.3:709-712 Mr '62.
(MIRA 15:3)

1. Zoologicheskii institut AN SSSR. Predstavleno akademikom Ye.N.
Pavlovskim.

(Copepoda)

BRODSKIY, K.A.

Fauna and distribution of Calanoida in the surface waters of the
northwestern part of the Pacific Ocean. Issl.dal'nevost.mor.
SSSR no.8:91-166 '62. (MIRA 15:12)
(Pacific Ocean—Calanoida)

KUZNETSOV, Vladimir Vasil'yevich (1912-1961); BRODSKIY, K.A.,
otv. red.

[Biology of the most common and mass species of crustaceans
in the Barents and the White Seas] Biologiya massovykh i na-
ibolee obychnykh vidov rakoobraznykh Barentseva i Belogo
morei. Moskva, Izd-vo "Nauka," 1964. 240 p. (MIRA 17:4)

BRODSKIY, K.A.

Distribution and some morphological characteristics of the Antarctic species of the genus *Calanus* (Copepoda). Issl. fauny morei 2:189-251 '64.
(MIRA 17:10)

1. Zoologicheskii institut AN SSSR.

BRODSKIY, K. A.

Variability and systematics of the species of the genus *Calanus* (Copepoda). Report No.1. *Calanus pacificus* Brodsky, 1948 and *C. sinicus* Brodsky, sp. n. Issl. fauny mor. 3:22-71 '65.
(MIRA 18:9)

1. Zoologicheskiy institut AN SSSR.

BRODSKIY, K.A.

Summary of marine planktonic organisms and oceanology. Okeanologiya
5 no. 4-577-591 '65. (MIRA 18:9)

1. Zoologicheskii institut AN SSSR, Leningrad.

USSR/Engineering - Machine tools

Card : 1/1 Pub. 128 - 7/32

Authors : Zlotnikov, S. L. and Brodskiy, L. G.

Title : New press machines for production of metallo-ceramic components

Periodical : Vest. mash. 34/7, 18 - 22, July 1954

Abstract : A description is given of mechanical presses, type K032, K034, and K035, used for production of metallo-ceramic components. Drawings and diagrams depicting the structure of machine mechanisms, their operation, performance, and kinematic functions, are presented. Graphs; table; illustrations.

Institution : ...

Submitted : ...

BRODSKIY, L.I., inzhener; POTAPOV, V.M., kandidat tekhnicheskikh nauk.

Measures against sludge ice at the Kuban River water barrier.
Gidr. i mel. 6 no.12:56-59 D '54. (MIRA 8:1)
(Kuban River--Ice on rivers, lakes, etc.)
(Weirs)

ERODSKIY, L. I., Candidate of Tech Sci (diss) -- "Combatting ice loads, on the example of winter operation of the hydraulic-engineering installations on the Nevinomyssk canal". Nevinomyssk, 1959. 15 pp (Min Agric USSR, Moscow Inst of Water Economy Engineers im V. R. Vil'yams), 150 copies (KL, No 21, 1959, 114)

DANIN, I.S.; KLIMOV, V.A.; BRODSKIY, L.N.; ISAKOV, A.I.

Introducing standards of tolerance and fitting at the Kharkov
furniture combine. Der. i lesokhim.prom.3 no.11:19-21 N '54.
(MLRA 7:12)

1. Khar'kovskiy mebel'nyy kombinat (for Danin, Klimov & Brodskiy)
2. UkrNIIMOD (for Isakov)
(Kharkov--Woodwork--Standards)

BRODSKIY, L.N.

Cutting back-legs of a chair on circular saws. Der.prom. 4 no.11:
26 N.'55. (MIRA 9:2)

1.Khar'kovskiy mebel'nyy kombinat imeni Shcherba.
(Khar'kov--Furniture industry) (Woodworking machinery)

ZVEREV, V.I.; BRODSKIY, L.N.

Industrial use of furniture panels with sawdust cores. Dpr.prom.5
no.8:18-19 Ag '56. (MLRA 9:10)

1.Khar'kovskiy mebel'nyy kombinat imeni Shcherba.
(Furniture industry)

BRODSKIY, L.N.

ZVEREV, V.I.; BRODSKIY, L.N.

Finishing radio cabinets with grained paper. Der. prom. 6 no.9:21-22
S '57. (MIRA 10:11)

1. Khar'kovskiy mebel'nyy kombinat im. Shchorsa.
(Cabinetwork) (Graining) (Paper products)

BRODSKIY, L.N.; RYBALKO, D.P.

Semiautomatic milling and cutting-off machines. Der. prom. 7 no. 12:21
D '58. (MIRA 11:12)

(Woodworking machinery)

BRODSKIY, L.Sh.; BARAB-TARLE, M.Ye.; SVIRIDENKO, S.Kh.

Automatic four-spindle grooving machines. Der.prom. 7 no. 6:10-11
Je '58. (MIRA 11:8)

(Woodworking machinery)

BRODSKIY, L.Sh.

The MP semiautomatic machine for cutting aluminum ingots.
Dizl.tekh.--ekon.inform. no.1:31-32 '59. (MIRA 12:2)
(Machine tools)

BRODSKIY, M.

▲ busy job. Mast. ugl. 8 no.5:21-22 My '59. (MIRA 12:8)

1. Tekhnicheskiy inspektor Karagandinskogo oblprofsoвета.
(Coal miners)

VINOGRADOV, F., inzh; BRODSKIY, M., inzh.

New technical means for a central control system in ports.
Rech.transp. 19 no.8:9-11 4g '60. (MIRA 14:3)
(Industrial television) (Harbors--Equipment and supplies)

BRODSKIY, M.

With such forces it is easy. Okhr.truda i sots.strakh. 5
no.4:16-17 Ap '62. (MIRA 15:4)

1. Tekhnicheskij inspektor Karagandinskogo soveta professional'-
nykh soyuzov.

(Balkhash--Nonferrous metal industries--Hygienic aspects)

BRODSKIY, M. (g.Nikolayev)

Active workers of a plant. Pozh.delo 8 no.8:29 Ag '62.

(MIRA 15:8)

(Nikolayev—Machinery industry—Fires and fire prevention)

BRODSKIY, M., inzh.

Standardization among branches of industry of shallow tunnels and channels.
Prom. stroi. i inzh. soor. 5 no.2:30-33 Mr-Ap '63. (MIRA 16:4)
(Tunnels—Standards) (Precast concrete construction)

PODOBED, V.V.; BRODSKIY, M.A.

[Catalog of parts for the "Universal" farm tractors] Katalog
detalei propashnykh traktorov "Universal." Moskva, Gos. izd-vo
sel'khoz. lit-ry, 1952. 207 p. (MLRA 7:4)

(Tractors)

PODOBED, V.V.; BRODSKIY, M.A.

[Catalog of row-crop tractor parts] Katalog detalei propashnykh traktorov, Moskva, Gos izd-vo selkhoz lit-ry, 1955. 547 p.
(Tractors--Apparatus and supplies) (MLRA 8:12)

BRODSKIY, Matvey Abramovich; KAMZOLOV, Aleksey Pavlovich; KASPEROVICH, N.S.,
inzh., red.; UVAROVA, A.F., tekhn. red.

[Catalog of spare parts for agricultural tractors] Katalog zapasnykh
chastei sel'skokhoziaistvennykh traktorov. Moskva, Gos. nauchno-
tekhn. izd-vo mashinostroit. lit-ry, 1961. (MIRA 14:8)
(Tractors—Catalogs)

9.2585

S/194/62/000/003/062/066
D271/D301

AUTHOR: Brodskiy, M. A.

TITLE: Study of the phasing process in microwave pulse oscillators

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika, no. 3, 1962, abstract 3-7-182k (V sb. 'Materialy Nauchno-tekhn. konferentsii. Belorussk. resp. pravl. Nauchno-tekhn. o-va radiotekhn. i elektrosvyazi K 100-letiyu so dnya rozhd. A. A. Popova.' Minsk, AN BSSR, 1960, 95-113)

TEXT: It is pointed out that the phase of oscillations of a microwave pulse oscillator varies from pulse to pulse in a random manner. Such oscillators usually operate with very short pulses, of the order of 1 μ sec, or less. In order to control the phase of oscillations, it is sufficient (in most cases) to control the initial phase in each pulse. With this purpose in mind, harmonic oscillations from an external source are introduced into the oscillating system. ✓B

Card 1/2

Study of the phasing ...

S/194/62/000/003/062/066
D271/D301

Phasing processes of oscillations in a microwave pulse oscillator are investigated. Approximation of nonlinear characteristic by a polynomial of the 3rd order, with a reduced number of terms, is used in the theoretical analysis. Processes of oscillation build-up were considered in an equivalent circuit of the oscillator which represented an oscillating system with lumped constants, with one or several degrees of freedom. Equivalent circuit of a loaded magnetron is given. Laws of oscillation phase establishment and the influence of phasing on the oscillator stability, with varying load, are investigated. 13 references. /-Abstracter's note: Complete translation._7 ✓B

Card 2/2

24.7200

S/124/62/000/010/004/015
D234/D308

AUTHORS: Brodskiy, M. A. and Zav'yalov, Yu. S.

TITLE: Solution of boundary problems of plane supersonic gas flow with condensation discontinuities

PERIODICAL: Referativnyy zhurnal, Mekhanika, no. 10, 1962, 23, abstract 10B117 (Tr. Tomskogo un-ta, 1961, 155, 108-114) VB

TEXT: The authors investigate plane stationary vortex motion of gas. It is assumed that the entropy is nearly constant and that $1/v(\partial^2 v / \partial p^2)$ is independent of the flow function, v being the velocity and p the pressure. In a previous paper by Yu. S. Zav'yalov (Prikl. matem. i mekhan., 1960, 24, no. 2, 228-236; RZhMekh, 1961, 7B80) it was shown that in this case a certain potential flow corresponds to the vortex motion. For this reason the authors consider potential supersonic flow and use an approximation proposed by A. A. Grib and A. G. Ryabinin (Dokl. AN SSSR, 1955, 100, no. 3, 425-428; RZhMekh, 1956, no. 4, 2025) for obtaining a general solution. The following examples are considered: flow of a vortex stream

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Solution of boundary ...

S/124/62/000/010/004/015
D234/D308

past a solid wall without a shock wave, flow behind a shock wave if the flow parameters on the characteristic intersecting the latter are known, flow past a solid wall in presence of an associated shock wave. /-Abstracter's note: Complete translation._7

✓B

Card 2/2

BORDADYMOV, A.A.; BRODSKIY, M.B.; VALOV, M.S.

Changes occurring in the shoe upper sides. Kozh.-obuv. prom.
7 no.4:34 Ap '65. (MIRA 18:6)

GORODETSKIY, I.Ye., doktor tekhnicheskikh nauk, professor, redaktor;
BRODSKIY, M.G., inzhener, redaktor; POPOVA, S.M., tekhnicheskii
redaktor; MATVEYEVA, Ye.N., tekhnicheskii redaktor

[Preci. and measuring techniques in machine building; a collection
of scientific research papers] Tochnost' i tekhnika izmerenii v
mashinostroenii; sbornik nauchno-issledovatel'skikh rabot. Pod obshchei
red. I.E.Gorodetskogo. Moskva, Gos. nauchno-tekhn. izd-vo mashino-
stroit. oit-ry, 1953. 125 p. [Microfilm] (MLRA 9:12)

1. Moscow. Stankoinstrumental'nyy institut.
(Measuring instruments)

MAIOV, A.N., kandidat tekhnicheskikh nauk; VIADZIIYEVSKIY, A.P., kandidat tekhnicheskikh nauk, redaktor; BRODSKIY, M.G., inzhener, redaktor; MOISEL', B.I., tekhnicheskiy redaktor.

[Automatic loading of metal-cutting machine tools] Avtomaticheskaya zagruzka metalloreshushchikh stankov. 2-e izd. perer. i dop. Moskva, Gos.nauchno-tekhn. izd-vo mashinostroit. lit-ry, 1955. 399 p.
(Machine tools) (MIRA 8:5)

GRANOVSKIY, G.I., professor, doktor tekhnicheskikh nauk, redaktor; BRODSKIY,
M.G., inzhener, redaktor; BALANDIN, A.F., inzhener, redaktor izda-
tel'stva; SHMEL'KINA, S.I., tekhnicheskiy redaktor

[Design of cutting tools] Konstruirovaniye rezhushchego instrumenta.
Pod red. G.I.Granovskogo. Moskva, Gos. nauchno-tekhn. izd-vo mashino-
stroit. lit-ry, 1956. 141 p. (MLRA 9:9)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy instrumental'nyy
institut.
(Cutting tools)

BRODSKIY, M.G. inzhener, redaktor; MATVEYEVA, Ye.N., tekhnicheskoy
redaktor

[Automation in machinery manufacturing] Avtomatizatsiya v mashino-
stroenii. Moskva, Gos.nauchno-tekhn. izd-vo mashinostroit. lit-ry,
1957. 357 p. (MLRA 10:6)

1. Moskovskiy dom nauchno-tekhnicheskoy propagandy imeni F.E.
Dzerzhinskogo
(Automatic control) (Machinery industry)

BRODSKIY, Mikhail Georgiyevich; VISHNEVETSKIY, Isay Moiseyevich;
GREYMAN, Yuriy Vladimirovich; MARCHENKO, V.T., red.;
SUKHAREVA, E.S., red.izd-va; LELYUKHIN, A.A., tekhn.red.

[Repair, operation, and modernization of elevators] Remont,
ekspluatatsiia i modernizatsiia liftov. Moskva, Izd-vo
M-va kommun.khoz.RSFSR, 1963. 119 p. (MIRA 16:12)
(Elevators—Maintenance and repair)

BRONSKIY, N.S.

Evaluation of the remainder term of numerical-differentiation
formulas. Usp.mat.nauk 13 no.6:73-77 N-D '58. (MIRA 12:2)
(Numerical calculations)

BRODSKIY, M. I.

"Manual for Workers Engaged in Calcium Carbide Production," edited by B.M. Malyshev, published by State Publishing House for Literature on Construction and Architecture, Moscow, 1954

Translation D 230530, May 55

BRODSKIY, M.I., inzh.

Using electronics in inland water transportation. Rech.transp. 18
no.3:44-45 Mr '59. (MIRA 12:4)
(Electronics in navigation)
(Inland water transportation)

BRODSKIY, M.I., inzhener.

Dispatch control installations in a river port. Rech.transp.15
no.7:9-10 J1 '56. (MIRA 9:9)
(Moscow--Harbors)

BRODEKIY, M.I., inzh.; KOPSHTEYN, Sh.N., inzh.

Standard precast reinforced concrete canals and tunnels with shallow foundations. Prom. stroi. 42 no.10:35-37 0 '64. (MIRA 17:11)

БРОДСКИЙ, М. И.

Бродский, М. И. On some properties of sets of positive

BRODSKIY, M. L.

Brodskii, M. L. On arithmetic sums of sets contained in a given set. Ukrain. Mat. Zh. 4 (1952), 195-203 (Russian)

The paper treats the arithmetical sum $A + P$ of a set A and a perfect set P of two sets A and P of the elements $x+y$ where $x \in A$, $y \in P$. The author shows that there exists a perfect set M such that the inclusion $M \subseteq A + P$ implies that A and P both contain more than one point, and that this is a corollary of the following theorem: Let n_1 denote a finite or countable system of k a continuous function of the first n_1 variables, and let P be a perfect set in the space E such that no equation $n_1(x) = 0$ is satisfied for any $x \in P$. Then there exists a perfect set M such that no equation $n_1(x) = 0$ is satisfied for values of the n_1 variables all belonging to M . The author's further results fall into the following categories: in the space E given a set A with the property P , there is a perfect set B such that $A + B$ has the property P ; in the space E given a set M with the property P , there is a perfect set B such that $M \subseteq A + B$ for some set A with the property Q ; given a set M with the property P in the space $E_1 \times E_2$, there is a perfect set B in E_2 such that

$M \subseteq A \times B$ for some set A with the property R in E_1 . The cases treated are: E, E_1, E_2 Banach spaces, P, P' = first category, Q, Q' = second category, R = second category.

BRODSKIY, M. L.

USSR/Mathematics - Probable Errors Sep/Oct 52

"Probable Evaluations of Errors in the Determination of Eigenvalues and Eigenvectors of a Varying Matrix," M. L. Brodskiy

"Usp Matemat Nauk" Vol 7, No 5(51), pp 205-214

Report heard at Prof L. A. Lyusternik's seminar in Oct 1950. An investigation of the dependence of the errors of eigenvalues and eigenvectors of a matrix upon small errors of the matrix's elements. Submitted 10 May 52.

242T75

BRODSKIY, M.L.

3
6.
✓ Brodskiy, M. L. Asymptotic estimates of the errors in numerical integration of systems of ordinary differential equations by difference methods. Doklady Akad. Nauk SSSR (N.S.) 93, 599-602 (1953). (Russian)

The notation here is not entirely clear to this reviewer. However, the difference method for solving the equations $dy/dx = f(x, y)$, where y and f represent vectors, is written in the general form

$$y_n - \sum_{j=1}^n \alpha_j y_{n-j} = h \sum_{j=1}^n \beta_j f_{n-j},$$

and the truncation error is sought. There is a lemma, a theorem, and a corollary, the latter giving the error in terms of the solution of a system of linear differential equations. The result is applied to some particular methods.

A. S. Householder (Oak Ridge, Tenn.).

AUTHOR: Brodskiy, M.L.

SOV/42-13-6-6/33

TITLE: On the Estimation of the Remainder Term of the Formulas for Numerical Differentiation (Ob otsenke ostatochnogo chlena formul chislennogo differentsirovaniya)

PERIODICAL: Uspekhi matematicheskikh nauk, 1958, Vol 13, Nr 6, pp 73-77 (USSR)

ABSTRACT: The present paper has a polemical character. The author considers an older estimation of remainder terms due to Steffensen and it is asserted that the statement of Mikeladze [Ref 2] that the formula of Steffensen is valid for all x of a certain interval with the exception of some isolated points, in general is wrong. By distinguishing several cases the fact is corrected. Further estimations are proposed. There are 5 references, 3 of which are Soviet, 1 German, and 1 American.

SUBMITTED: July 19, 1957

Card 1/1

16(1)

AUTHOR: Brodskiy, M.L.

SOV/42-14-1-7/27

TITLE: On the Properties of an Operator Mapping Onto Itself the Non-Negative Part of a Space With Indefinite Metric
(O svoystvakh operatora, otobrazhayushchego v sebya neotritsatel'nuyu chast' prostranstva s indefinitnoy metrikey)

PERIODICAL: Uspekhi matematicheskikh nauk, 1959, Vol 14, Nr 1, pp 147-152 (USSR)

ABSTRACT: The author joins the investigations of M.G. Kreyn and I.S. Iokhvidov [Ref 1,2]. Let E be a complex Hilbert space in which, beside of the ordinary metric, there is defined an indefinite metric generated by the scalar product $[x,y] = (Px,Py) - (Qx,Qy)$, where P is a p -dimensional orthogonal projector and $Q = I - P$. Let $\mu(x) = [x,x]$. The set of all $x \in E$ for which $\mu(x) \geq 0$ is denoted as the non-negative part T of E . Let T^+ (T^-) denote that part of E where $\mu(x) > 0$ ($\mu(x) < 0$). Theorem: If A is a linear operator, D_A dense in E , $A(D_A \cap T) \subset T$, then A is either at most p -dimensional or the following assertions are valid: 1. A is bounded; 2. there exists α $\alpha = \text{const} > 0$ so that $\mu(Ax) \geq \alpha \mu(x)$ for $\mu(x) > 0$; 3. A has a p -dimensional invariant space $L_1 \subset T$ and an invariant space

Card 1/2

On the Properties of an Operator Mapping Onto Itself SOV/42-14-1-7/27
the Non-Negative Part of a Space With Indefinite Metric

$L_2 \subset E \setminus T^+$ so that $E/L_2 = p$; 4. there exists an $r > 0$ so that the spectrum of A lies on L_1 in the domain $|\lambda| \geq r$ and the remaining spectrum of A lies in E in the domain $|\lambda| \leq r$. If it is well-known that $A(T \setminus \{0\}) \subset T^+$, then $L_1 \subset T^+ \cup \{0\}$,
 $L_2 \subset T^- \cup \{0\}$, $E = L_1 \dot{+} L_2$.

A part of the assertions can be transferred immediately to Banach spaces.

There are 7 references, 4 of which are Soviet, 1 English, 1 American, and 1 German.

SUBMITTED: May 31, 1957

Card 2/2

POL'SKIY, N.I.; GOKHBERG, I.TS.; DYNIN, A.S.; SOLOMYAK, M.Z.; VILENKIN, N.Ya.;
BRODSKIY, M.L.; SKLYARENKO, Ye.G.

Summaries of papers accepted for publication by the Moscow
Mathematical Society. Usp. mat. nauk 18 no.2:179-188 Mr-Apr
'63. (MIRA 16:8)
(Moscow--Mathematical societies)

SOV/124-57-5-5267

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 5, p 22 (USSR)

AUTHOR: Brodskiy, M. P.

TITLE: The Effect of an Explosion in a Solid Medium (O deystvii vzryva v tverдой srede)

PERIODICAL: V sb.: Teoriya i praktika burovzryvnykh rabot v gornoy promyshlennosti, Moscow-Kharkov, Ugletekhizdat, 1953, pp 66-117

ABSTRACT: The paper makes a comparison of available formulae for the calculation of the size of the charges used in blasting. The premises of a new theory advanced by the author are analyzed; the theory is based on various simplifications and assumptions providing a fairly simple basis for the determination of the size of a charge required for the breaking of the soil (loosening or blowing-out). A classification of soils based on this theory is submitted in the paper. In the latter part of the paper the process of comminution of the soil, explosions directed for the blowing-out of soil, and the effect of the explosion on the water-permeability of soils are analyzed.

Card 1/1

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BRODSKIY, M.S.; YEGOROV, M.D., starshiy elektromekhanik

Cable-finder amplifier. 'Avtom., telem. i sviaz' 3 no. 4:44-45 Ap
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1. Zamestitel' nachal'nika Leningrad-Baltiyskoy distantzii
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(Transistor amplifiers) (Electric cables)

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own condensate. Elek.sta. 30 no.1:85-87 Ja '59. (MIRA 12:3)
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Changes in the circuit for the switching in of route indicators.
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1. Leningrad-Baltiyskaya distantziya signalizatsii i svyazi
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(Railroads—Signaling)